

MACHINE LEVEL CONTROL RECORD

MACHINE TYPE 13SD SERIAL No. 13762 SUFFIX LEVEL E/C 421057

2166560 2166561 2166562	E/C No.	D/A No.	DESCRIPTION	INST	LLE	
2166561		/		DATE	INIT	
	415352		SLT Panel Rework	11-1	PEH	
2166562	415368		Functional Interlock Change	11-1	- 11	
LIUUUUL	415372		SLT Panel Rework	12-2	- 11	
2166565	415374		Power Sequence Improvements	12-3	"	
2167003	415388		Gate Assembly Revision	12-3	11	
2166567	415408		Improved Read Amp. & Access Cards	12-29	11	
2166568	415419		Transducer Rewiring	12-29	7	
2167006	415407A		Replace Head Load Springs	12-29	_	
2157007	415335A		Replace Preload Bearing	12-29	_	
2167009	415398		Remove Interlock Handle Spring	1-11	11	
2166565	415374A		Correct Errors in E/C 415374	3-9	- 11	
2166569	415416		Replace ALD's & Supply 48 V Terminal	3-9	"	
2167011	415393		Filter Assembly	4-5	11	
2167008	415423		Head Load Plug Retainer	4-5	11	
2167005	415386		Transducer Locking Block	4-6	11	
2166570	415433		Tachometer Capacitor	5-27	11	
2166570	415433B		SLT Panel Rework	7-14	- 11	
2166572	415444		Access Logic SLT Card	7-14	П	
2167024	415477		Replace Door Opener	7-22	"	
2167102	421001A		Replace Defective Spindle	7-22	"	
2166573	415447		Interlock Compatibility	8-5	"	
2167027	421102A		Replace Disk Guide	8-10	"	
2167023	415379C		Replace Card Retainer	9-26	"	
2167031	421011A		Improve Lower Head Clamp	1-25	11	
2166574	421016		Install Head Hold Circuit	10-30	11	
2166575	421019		New Transducer SLT Card	12-10	11	
	421025		SLT Panel Rework	1-19	LWH	
	421025A		Change Disposition Only	3-1	11	
2166577	421029		Install New Transducer Card	1-19	H	
	421103		Ins. New Head & Arm Assembly	2-10	11	
	421032		Ins. Res. to CE Lines & SLT Panel Rwk.	4-1	11	
2166578			Update ILDS	6-27	- 11	
2166578 2166580	421036					
	421036		Improved interlock and AC Box	11-30	11	
			Improved interlock and AC Box Revise Interlock and AC Box	11-30 11-30		
2166580 216658 2	421013 421013A 421043		Revise Interlock and AC Box	11-30	T I	
2166580	421013 421013A				T I	



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2167003	415388		Gate Assembly Revision	12-3	11
2166567	415408		Improved Read Amp. & Access Cards	12-29	"
2166568	415419		Transducer Rewiring	12-29	"
2167006	415407A		Replace Head Load Springs	12-29	_
2157007	415335A		Replace Preload Bearing	12-29	_
2167009	415398		Remove Interlock Handle Spring	1-11	11
2166565	415374A		Correct Errors in E/C 415374	3-9	11
2166569	415416		Replace ALD's & Supply 48 V Terminal	3-9	"
2167011	415393		Filter Assembly	4-5	"
2167008	415423		Head Load Plug Retainer	4-5	- 11
2167005	415386		Transducer Locking Block	4-6	11
2166570	415433		Tachometer Capacitor	5-27	"
2166570	415433B	<u> </u>	SLT Panel Rework	7-14	- ,,
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2167102	421001A		Replace Defective Spindle	7-22	
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2166574	421016		Install Head Hold Circuit	10-30	н
2166575	421019		New Transducer SLT Card	12-10	11
21005/5	421025		SLT Panel Rework		
7	421025A			1-19 3-1	LWH "
2166577	421029		Change Disposition Only		
21005//	421103	 	Install New Transducer Card Ins. New Head & Arm Assembly	1-19 2-10	"
2166578	421032				11
2166580	421032	 	Ins. Res. to CE Lines & SLT Panel Rwk. Update ILDS	4-1	"
2100300	421013			6-27	
***************************************	421013 421013A		Improved interlock and AC Box	11-30	
216658 2	421013A 421043		Revise Interlock and AC Box	11-30	
2166584	421043		Rework cartridge unlock Light CE Manual Head load	11-30 4-1	-'
2166585	421057		Install RC Network K3 Relay		11
			The deli ne network its nergy	4-27	
				1 1	

P/N_	2219161	
SHE	ETL	OF _5

FIELD ENGINEERING INSTALLATION INSTRUCTIONS

MACHINE TYPE 13 SINGLE DISK FILE

ENGINE	ERIN.	G CHANGE	ністої	₹Y	
E/C NO	•	DATE	SMEET	NO.	
415416		12/30/65			
415438		23MAR66	1-4		
421028		17MAR67			
421046		3			
42105	3	5/28/10			
<u></u>					

²³ HOLE PUNCH FOR INSTALLATION BINDER

P/N 2219161 SMIET 2 CISER 5

UNIT INSTALLATION INSTRUCTIONS

Unpacking & Machine Location	Page	2	
Baseplate Grounding Check		2	
Cabling to FCU		2	
Mechanical Checks		2	
Power Check (13SD File Off)		3	
Head - Disk Check (Power Off)		3	
File Motor & Head Loading Check		4	
Head Unloading Check		4	
Power - On Motor Sequence Check		4	
Head Alignment Check		4	
General Checks		4	

					
ENG. DATE	12/30/65	23MAR66	17MAR67 421028	10NOV67	
CHANGE NO.	415416	415438	421028	421046	

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NOTE: Do the following steps in the sequence given unless otherwise noted. For adjustment procedures consult the 13 single disk F.E. Maintenance Manual.

A. Unpacking

- 1. Remove packing. Check machines for possible shipping damage.
- 2. Inventory the parts in the CPU shipping group.
- 3. Remove shipping braces, head covers, etc.
- 4. Install the 135D file inmounting brackets of host system.

B. Baseplate Grounding Check

1. Measure resistance between the base of the 13SD file and the frame of the host system. The reading should be 5 megohms or higher.

(The baseplate is the large aluminum casting on which the access mechanism is mounted. It is normally grounded at the point only by means of a lead connected to the gate DC terminal.)

- 2. If no extra grounds exist, continue. Any shorts between 13SD baseplate and host system frames must be eliminated.
- 3. Repeat item B for all 13SD files being installed.
- 4. Install motor start/stop and indicator lamp cable from FCU. Plug into taper pin blocks TB3 and TB3A (XA101).
- 5. Install control cable between FCU and 13SD file. In the 13SD file, plug the control cable into SLT board position A1A2.

C. Cabling to CPU or FCU

- 1. Remove all AC power to CPU/FCU.
- 2. Install AC cable between CPU/FCU and 13SD file. Plugging one end into the FCU AC plug provided and connect the other end to AC terminal block TB-4.
- Install DC cable between CPU/FCU. Connect to TB1. CAUTION: Incorrect wiring can destroy SLT board and cards.

D. Mechanical Checks

- Check head load springs for proper seating against R/W heads. Check that arm clamps are snug.
- 2. Check the R/W head plugs for no loose connectors.
- 3. Check transducers for no loose connectors.
- 4. Check terminal voice coil and tachometer for no loose terminals or shorts.
- 5. Check motor drive belt for proper tension and tracking.

12/30/65 415416	23MAR66 415438	17MAR67 421028	10N0V67 421046	

INSTALLATION INSTRUCTIONS

- 6. Check that SLT cards and paddle cards are securely plugged in the gate.
- 7. Repeat steps D1 D6 for all 13SD files being installed.
- E. Power Check 1350 File
 - 1. Check line voltage and cycle rating on all 13SD files being installed to insure they match the CPU or FCU. Line voltage and cycle ratings are located on spindle drive motor and blower motor nameplates.
 - 2. Apply power and check the following voltages with AC power on FCU o CPU. Adjust if necessary to nominal voltages.

Voltage	Terminal No.	Source	e
+48	5	FCU/CF	טי
+ 6	3	11 1	1
+ 3	1	H I	•
- 3	2	11 1	•

- 3. Check the operation of the fan.
- 4. Repeat steps 2 and 3 on all 13SD files being installed.
- F. Head-Disk Check (Power Off)
 - Inspect CE disk cartridge for shipping damage.
 - 2. Vacuum entire base plate and clean if necessary.
 - 3. When machine has been exposed to extreme shipping environments, check for rust and corrosion. Special attention should be given to detents, disk drive spindle, and disk cartridge door opener. Corrosion may be removed with 90% Isopropyl Alcohol.
 - 4. Check R/W heads for damage.
 - 5. Check the head unload mechanism.
 - 6. Mount CE disk cartridge.
 - WARNING: Do not let heads load during this step. Carefully move carriage forward into disk cartridge.
 - Check closely for interference between heads, head cables, and disk. Move the carriage all the way to positive stop.
 - 9. Restore the carriage to the fully retracted position.
 - 10/ Repeat steps F2-9 on all 13SD files being installed.

ENG. DATE	12-30-65 415416	23MARS7 415438	17MAR67 421028	10N0V67 421046		
CHANGE NO.	415410	417470		<u> </u>	L	

POSTALLATION PROPERTIES

P/N 2219161 C:::EET 5 C7 SEE 5

SHEET

- G. File motor and head loading check
 - 1. Insert CE disk cartridge and turn on the motor file Start/Stop switch.
 - 2. Check the following items:
 - ~a. Disk cartridge drive motor starts.
 - b. When heads are loaded use flashlight to check that head cables, etc., are clear of disks. Note: Head load delay circuit requires 90 to 125 seconds.
 - c. Carriage is detented at track 000.
 - d. Ready light is on. (in CPU)
- H. Head Unloading Check
 - While watching the heads, turn the file.off. The heads should unload immediately.
 - If the heads do not unload at once, before the disks slow down appreciably, determine and eliminate the cause of this failure before proceeding. Then power up and repeat step 1 above.
 - 3. Repeat Sections G and H above on all 135D files being installed.
 - 4. With all file motors on, turn system power off. All motors should turn off, all heads should unload.
- i. Hoad Alignment Check

Notice: All heads must be checked and aligned at installation to insure interchangeability of disk cartridges.

(Note: Set scope and heads as if to align heads. Allow 15 minutes warm up time. The head amplitude must not vary more than 25% of the optimum level. See figure in 13SD F.E. Maintenance Manual, Section 4.6.3)

J. General Checks:

Run diagnostics to check the operation of files, FCU and meters.

ENG. DATE	12/30/65 415416	23MAR66 415438	17MAR67 421028	10NOV67 421046	,	
CHANGE NO.	415410	415450	421020			

2 3 4 5 6 7

LISTING BY PAGE SEQ	PAGE TITLE	PAGE NO.	PAGE P/N	OATE	ENG CHNG.
XA000	1.44 MC OSC WRITE SELECT AND SAFETY	XA011	2199521	NOV 68	421063
XA001	ACCESS LOGIC AND CONTROLS	XA031	2199523	NOV 67	421047
XA011	BASEPLATE ELECTRONICS	XA 101	2199575	NOV 68	421063
XA012	BLOCK OTAGRAM	XA110	2199580	NOV 67	421047
XA013	CPU INTERFACE	XA061	2199526	NOV 67	421047
XA021	INOEX PAGE	XA000	2199571	NOV 68	421063
XA031	INTERLOCK HEAD LOAD	XA052	2199567	NOV 68	421063
XA041	LINE ORIVERS AND TERMINATORS	XA 062	2199566	NOV 67	421047
XA042	READ AMPLIFIER AND DATA SEPARATOR	XA021	2199522	NOV 67	421047
XA051	SOCKET LISTING	XA001	2199527	NOV 68	421063
XA052	SOCKET LOCATION AND CABLE GUIDE	XA081	2199573	NOV 67	421047
XA061	TACHOMETER AMP AND DETENT SELECT	XA041	2199524	NOV 68	421063
XA062	TRANSOUCER INTERLOCK	XA051	2199525	NOV 67	421047
XA081	VOICE COIL BRIDGE	XA042	2199565	NOV 67	421047
XA101	WRITE ORIVER AND HEADS	XA013	2199563	NOV 67	421047
XA110	WRITE TRIGGER AND SELECT	XA012	2199564	NOV 67	421047

DATE	EC NUMBER	DATE	EC NUMBER	INO	X PAGE		
SEE INC	EX CARO	NOV 67	421047				
DEC 66	421025	15JUL68	421057	DATE	SEP 65	P/N	2199571
JAN 67	421029	NOV 68	421063			TYPE	1350
FEB 67	421032			IBM		BM XA000	
AUG 67	421043			TDV	ur'	^*	

SOLID LOGIC DESIGN AUTOMATION- PSOCKET LISTING

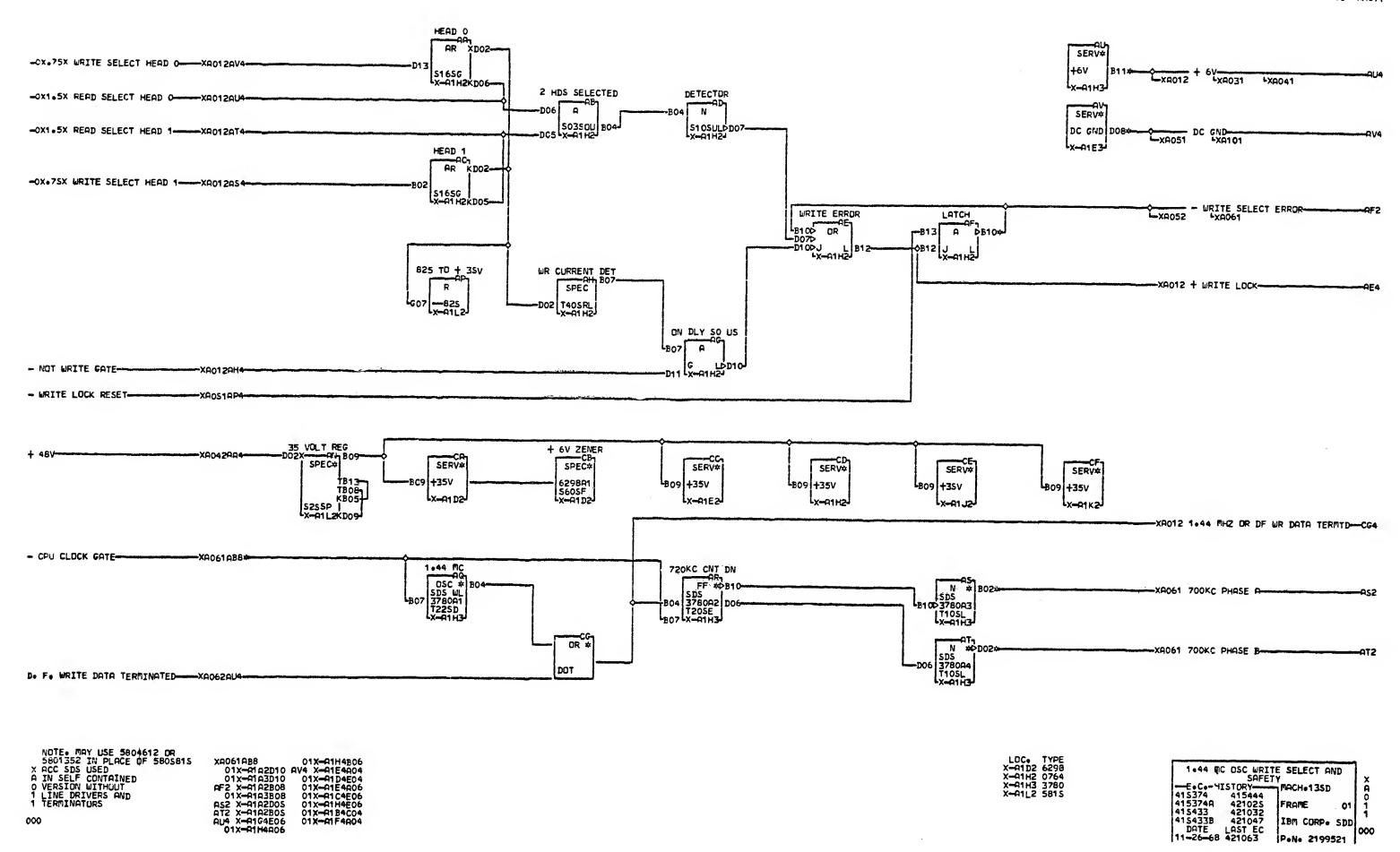
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:.2	CONNECTOR E02 XA101AA2 E03 XA021AM4 E04 XA061AE1 E05 XA011AT2 E07 XA031AL1 E08 XA011AF2 E09 XA021AL4	XA012 A1 A2 A3 A4 A5 A6 A8 A9 AA AB AC AD AE AF AG AH AL XA013 AN AP AQ AR A5 AT XA013 AU XA013 AU XA013 AU XA013 AU XA013 AV XA013 AY XA013 AY XA013 AY XA013 AY XA013 AY XA013 AY XA011 A2 XA011 A2	
	D02 X6021854 D04 X60318N4 D05 X6011852 D06 X60518H4	XA012 AZ B1 E4 CONNECTOR A04 A06 XA011 AV4 A06 XA011 AV4 D04 XA051 AA3 D06 XA052 B1 XA011 B3 D0UBLE CARD M3 5804613 4613 XA052 B1 XA052 B1	
23	D07 X00616B6 D09 X00616B7 D10 X00616B8 D11 X00616B9 D12 X0101606 D13 X0052BK4	F2 DOUBLE CARD 5807198 7198 N2 DOUBLE CARD N2 DOUBLE CARD N2 DOUBLE CARD N3 5804673 4673 XA041 A1 A2 A3 A4 A5 A6 A7 A8 A9 AA AB AC	
~~	B02 XA062AY4 B04 XA061AB1 E05 XA061AB2 B07 XA062AL4 B06 XA011AF2	XA042 AD AE AF AG CONNECTOR R04 XR01:AV4 G2 DOUBLE CARD G3 5807274 7234 XR031 A1 A2 A3 A5 A6 A7 A9 AB AC AD AE AF AG AH AJ AK AN AP AQ AY UNUSED PORTIONS B	
******* 82	D11 XAO61AB9 D12 XAO62AK4 D13 XAO62BK4 SINGLE CARD 2310 5803758 3758	G4 CONVECTOR E04 XA012AB2 E06 XA011AU4 H2 SINGLE CARD	
	XRO62 R1 R4 B1 B4 C1 C4 D1 D2 E1 E2 E3 E4 F1 F2 F3 F4 G1 G2 G3 G4 UNUSED PORTIONS	5800764 0764 XA011 A1 A2 A7 A8 A9 AA AB AC H3 SINGLE CARD SDS 5803780 3780 XA011 A1 A2 A3 A4	Ī
B4	CONNECTOR A06 XA042AC4 B04 XA101AA3 B06 XA041AK4 C04 XA011AV4 C06 XA041AE2 D04 XA041AE4 E04 XA041AE2 E04 XA041AE2	H4 CONNECTOR 906 X90119U4 804 X00319B2 806 X90119U4 C04 X90419B2 C06 X9052BX2 D04 X91019B2 E04 X91019B3 E06 X90119V4	
C2 C3	DOUBLE CARD SDS 5807319 7319 XAO21 A1 A2 A3 A4 A5 A6 A7 A8 A9 AA UNUSED PORTIONS B C D	J2 DDUBLE CARD J3 5807235 7235 X0051 02 05 06 07 09 14 15 X052 17 18 X051 20 21 X052 22 23 25 26 27 29 X053 30 X051 31	
C4	CONNECTOR RO6 XR101RR6 BO4 XR052BX2 BO6 XR052BE4 CO4 XR042RR4 CO6 XR042RC4 DO4 XR101RR5 FO4 XR101RR5	XA052 32 33 XA051 34 XA052 AC XA051 B1 C1 D1 D2 D3 D4 J4 CONNECTOR A06 XA031AZ3 B04 XA031AY7	
***** 23 €0	E06 XA011AV4 DOUBLE CARD 5806298 6298 XA011 A1 XA021 A2 A3 4 A5 A6 A7	B06 XA042AA4 C04 XA031AX7 C06 XA061AB6 D04 XA012AB2 E04 XA041AA2 E06 XA031AE4	
	CONNECTOR 904 X90419W2 906 X90419W5 904 X90119V4 906 X90519B1	- K2 DOUBLE CARD K3 5807511 7511 XA051 A1 A2 A3 A4 A5 A6 A7 A8 UNUSED PORTIONS	
162 E3	DOUBLE CARD 5804679 4679	ВС	

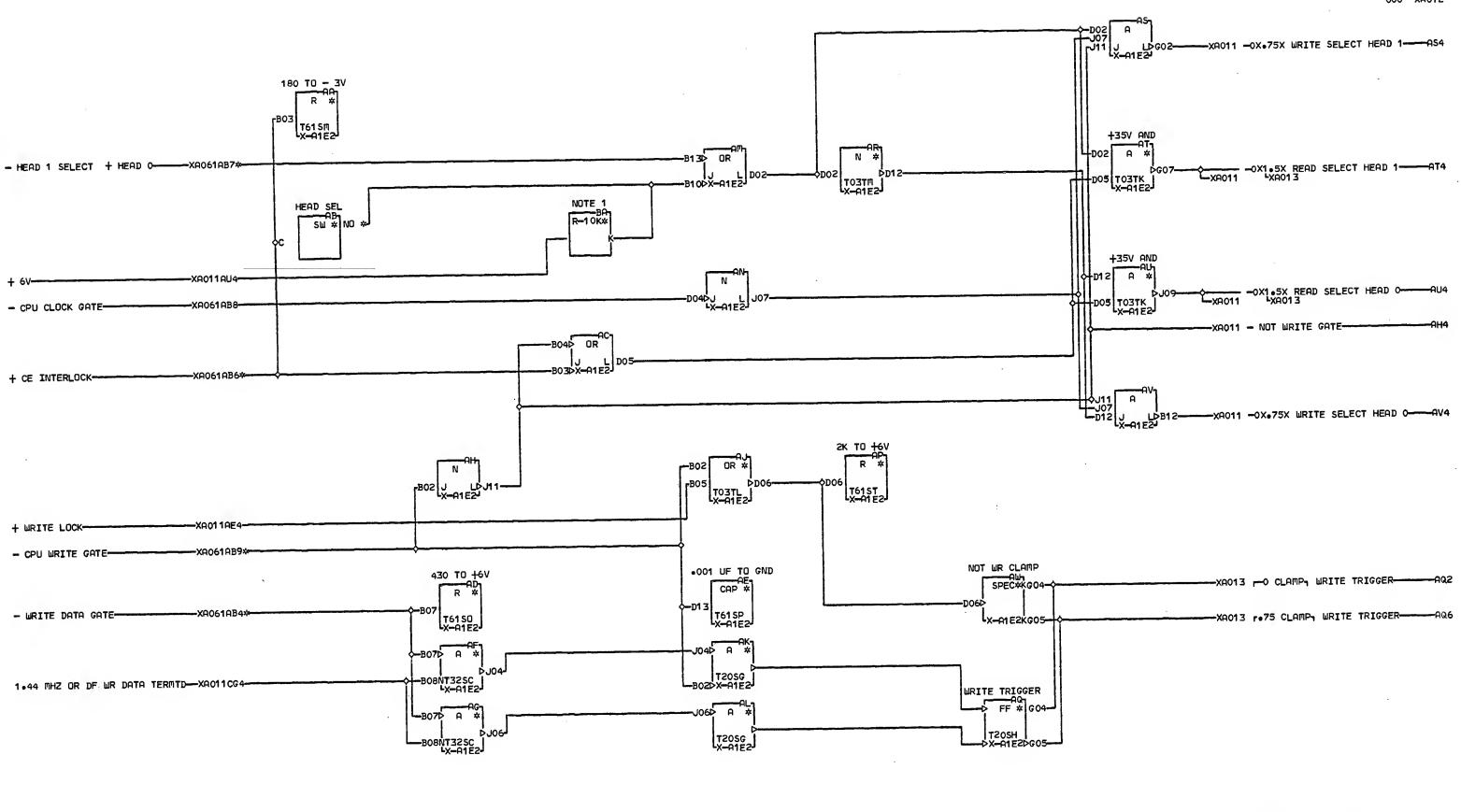
		PLI	JG LIS	T				
PART	NO	ACC	TYPE	SO (KET	rs	TOTAL	
	758 780 613 679 298 198 235 319			BHENEDE GUNNANA		F4	C4 G4	01 01 01 01 01 01 01 01 01 01

SOCKET LISTING
DATE 11-26-68 MACH. 13SD

LOG 3322 BOARD 01X-A1 O
PREV. ENGR. 11-15-67 421047
PRES. ENGR. 11-26-68 421063
1
P.N. 2199527

IBM CORP. SDD BLK.



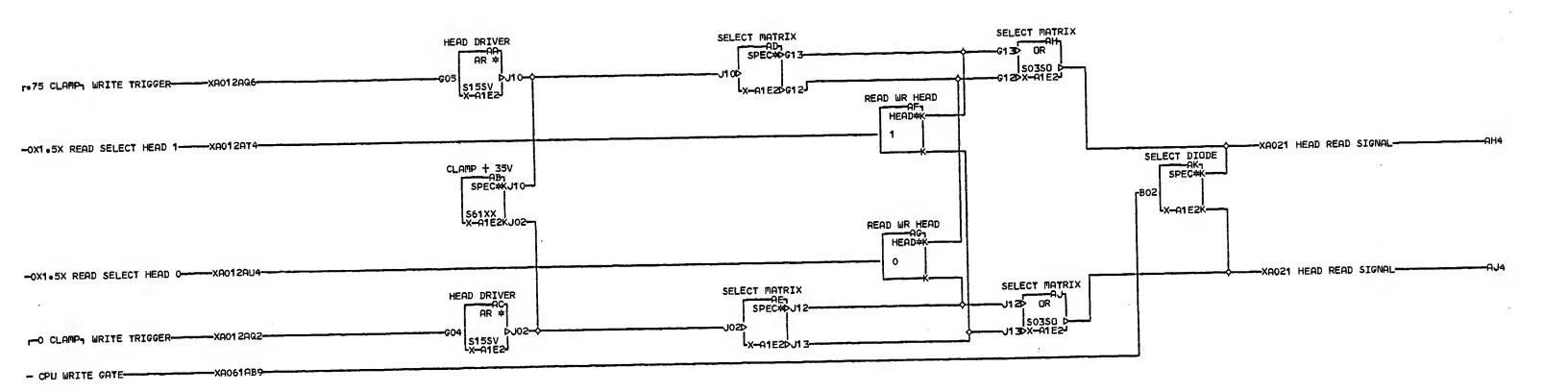


NOTE 1. RESISTOR LOCATED ON PADDLE X CARD OF CABLE IN A POS T7. SEE XA081. 0 1

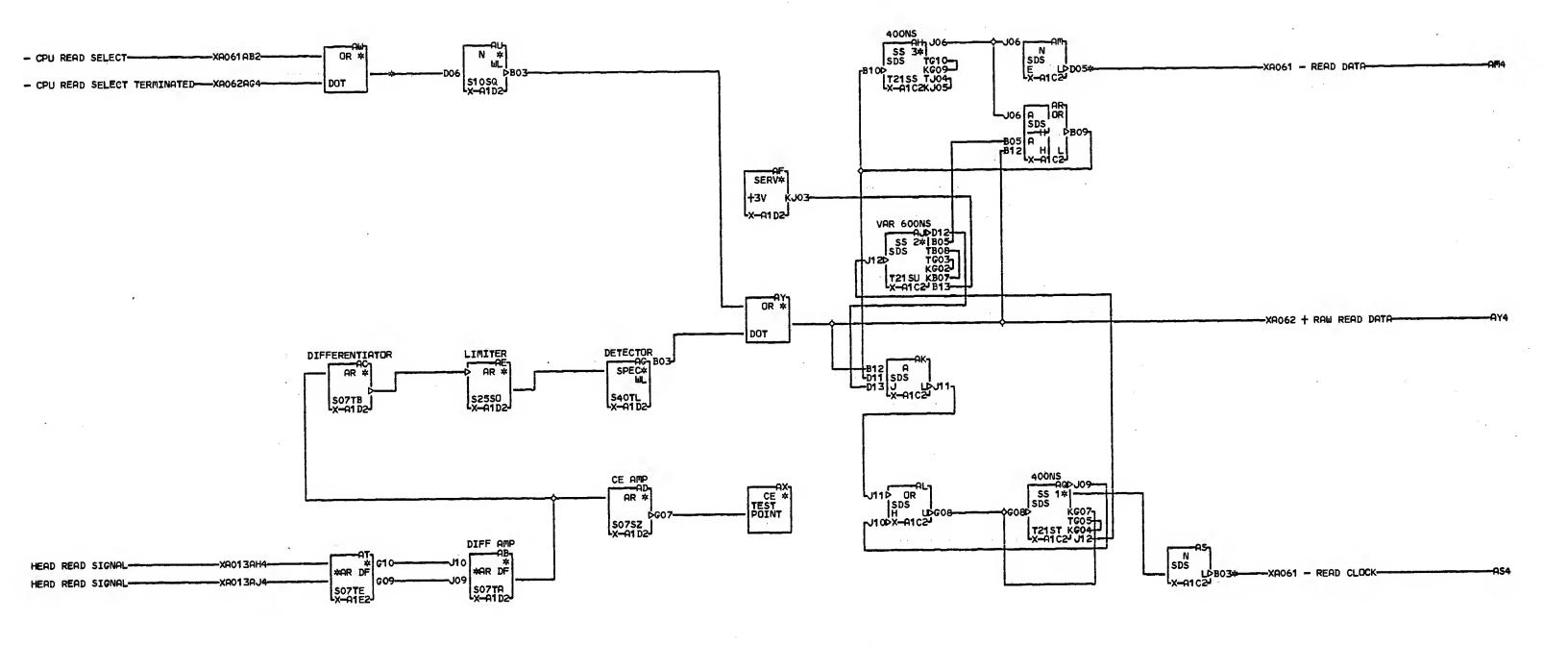
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LOC. TYPE X-A1E2 4679

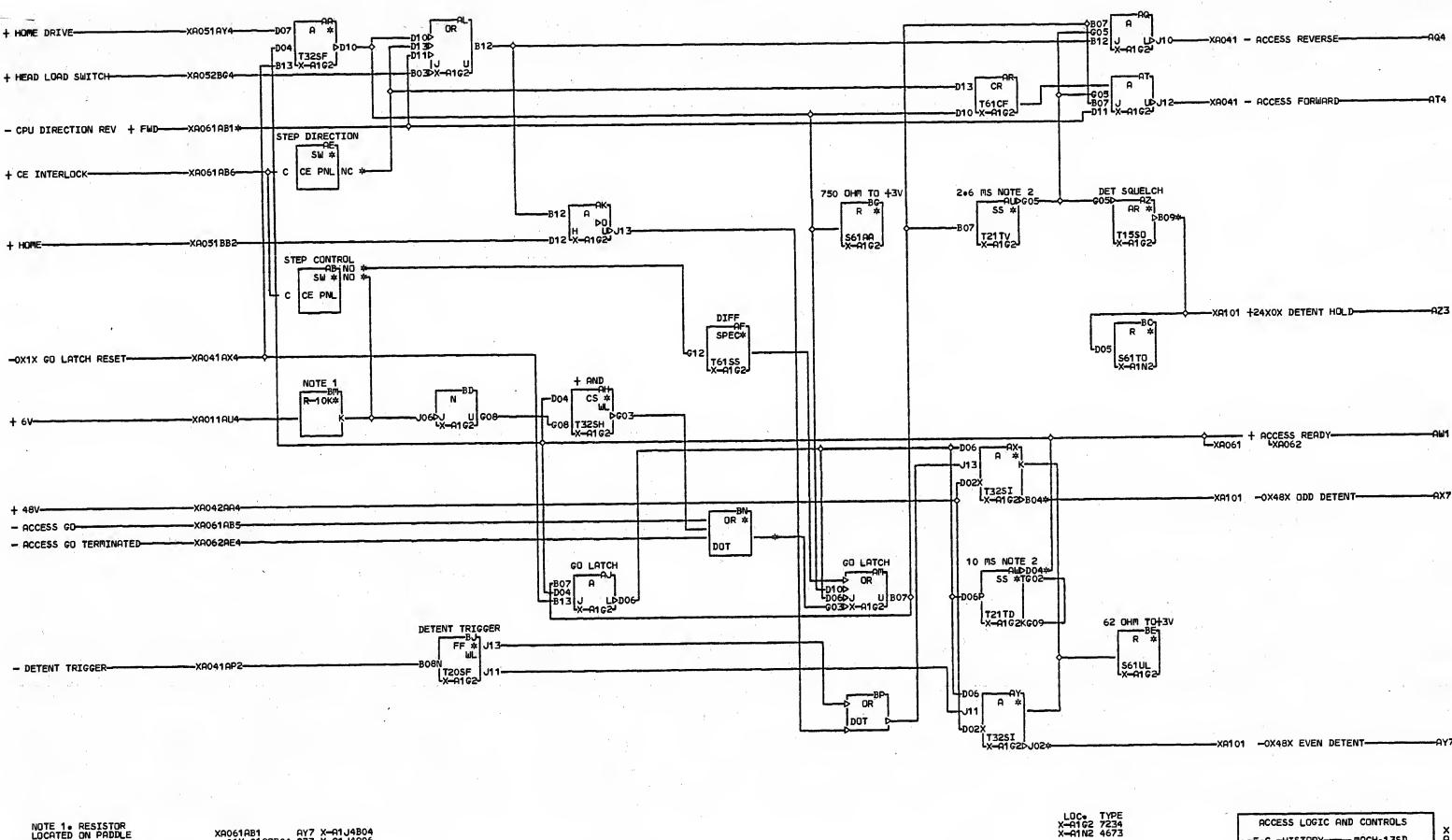


LOC. TYPE X-01E2 4679



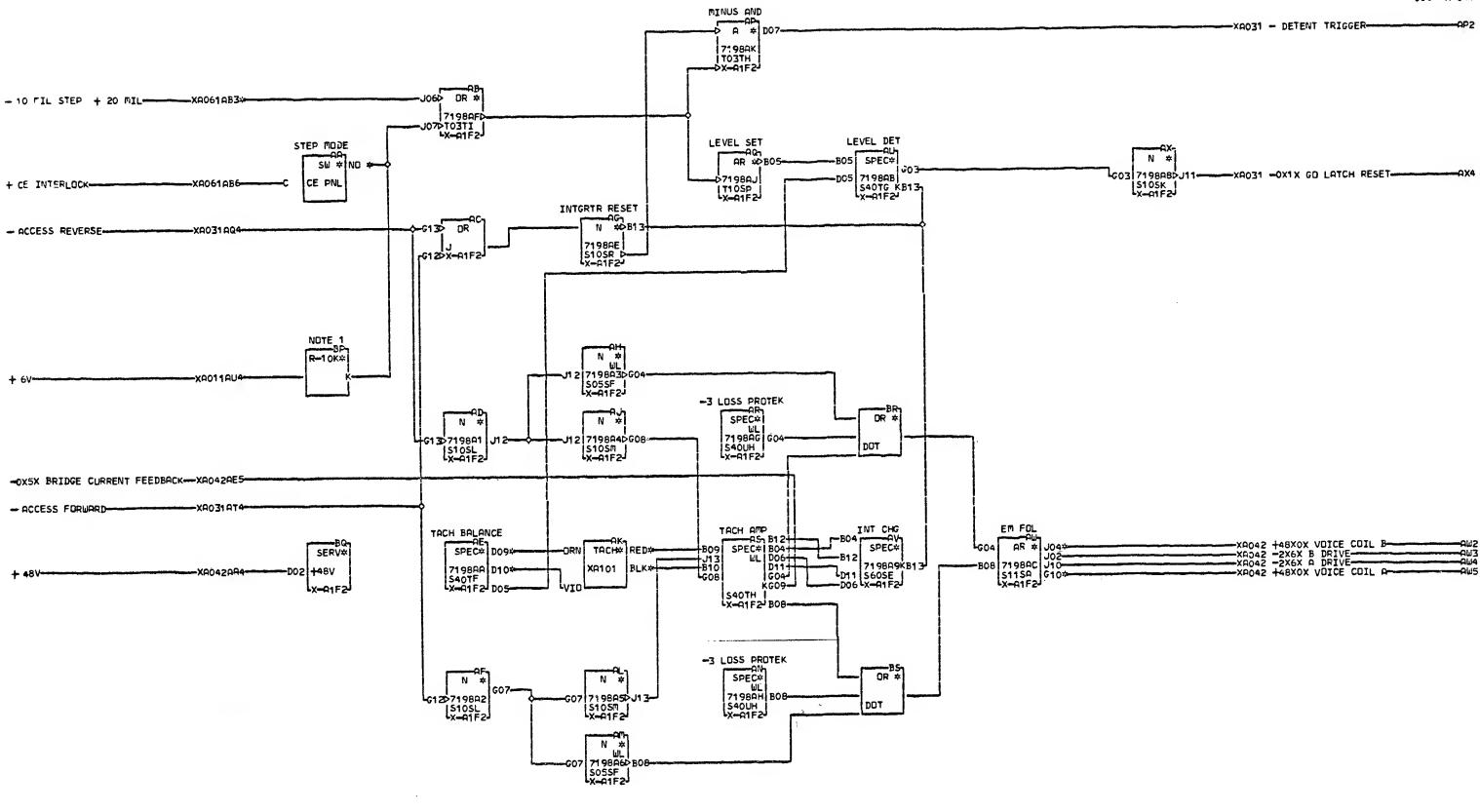
NOTE CARD CODE SDS USED IN SELF CONTAINED X VERSION WITHOUT LINE A DRIVERS AND TERMINATORS 0 2 NOTE MAY USE 7319 1 INSTEAD OF 4665

АМ4 X-A1A2B03 AS4 X-A1A2D02 AW4 X-A1A2B09 LUC. TYPE X-01C2 7319 X-01D2 6298 X-01E2 4679



NOTE 1. RESISTOR
LOCATED ON PADDLE
X CARD OF CABLE IN
A POS T7. SEE XA081.
O NOTE 2. CARDS REWORKED INTO
3 5807234 FROM 5804674 MAY NOT
1 BE USED ON BOARDS ETCHED AT
EC LEVEL 421047 AND LATER

XA061AB1 AY7 X-A1J4B04 01X-A1A2B04 AZ3 X-A1J4A06 01X-A1A3B04 BN4 X-A1A2D04 AB1 X-A1K4A06 AB2 X-A1K4A04 01X-A1H4B04 AE4 X-A1J4E06 AW1 X-A1A2B07 AX7 X-A1J4C04



NOTE MAY USE 4667 INSTEAD OF X 7198 A NOTE 1. RESISTOR O LOCATED ON PADDLE 4 CARD OF CABLE IN 1 POS T7. SEE XAOB1.

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XAO61AB3 AW2 X-A1D4AO4 01X-A1A2B10 AW5 X-A1D4AO6 01X-A1A3B10 AC2 X-A1J4E04 01X-A1H4C04 AE2 X-A1B4C06 AE4 X-A1B4E04 AK2 X-A1B4E04 AK4 X-A1B4E04 AK4 X-A1B4E06

TACH AMP AND DETENT SELECT -E.C.-HTSTORY-415352 415433B 415374 415444 415374A 421032 415433 421047 DATE LAST EC 11-26-68 421063 FRAME IBM CORP. SDD Pelle 2199524

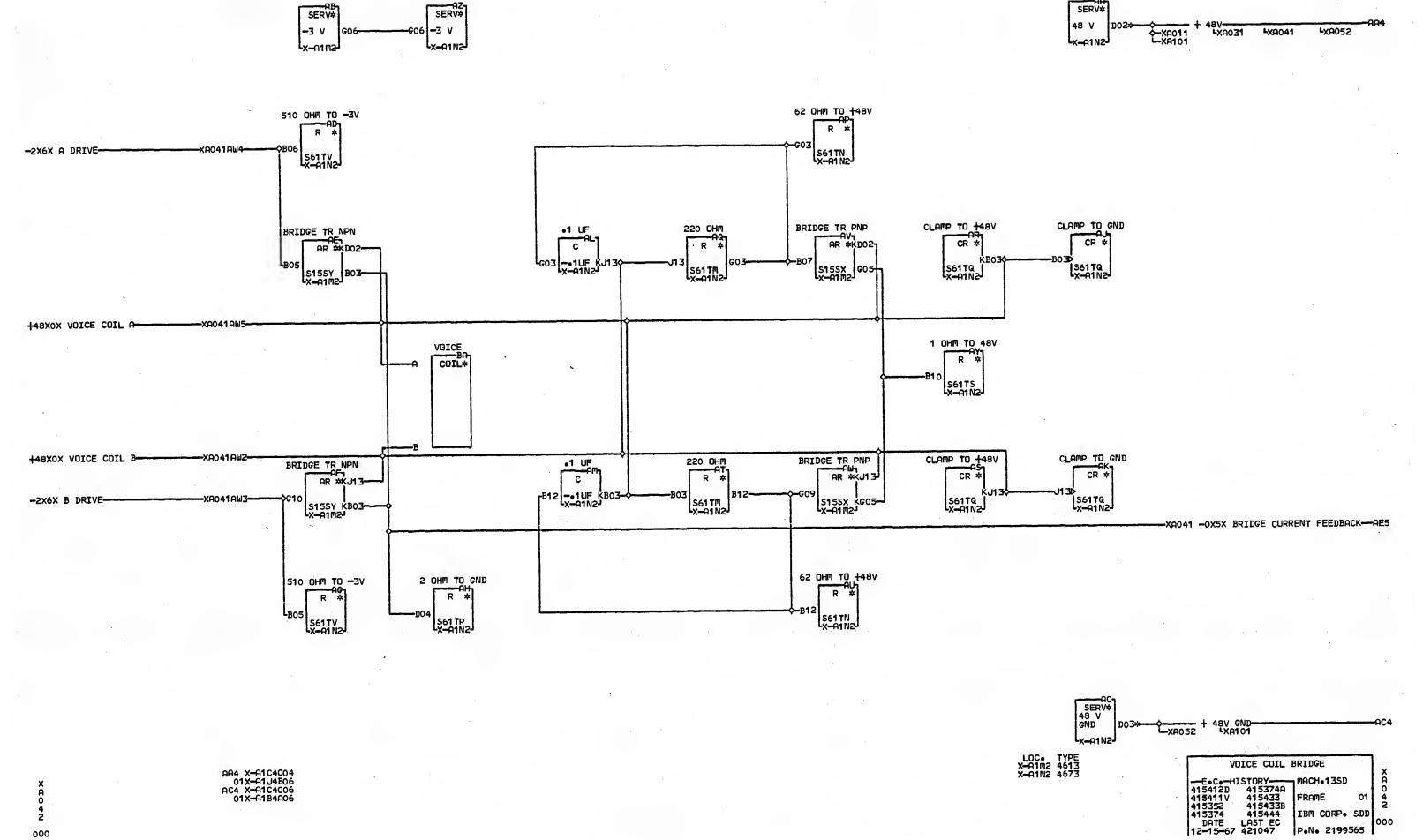
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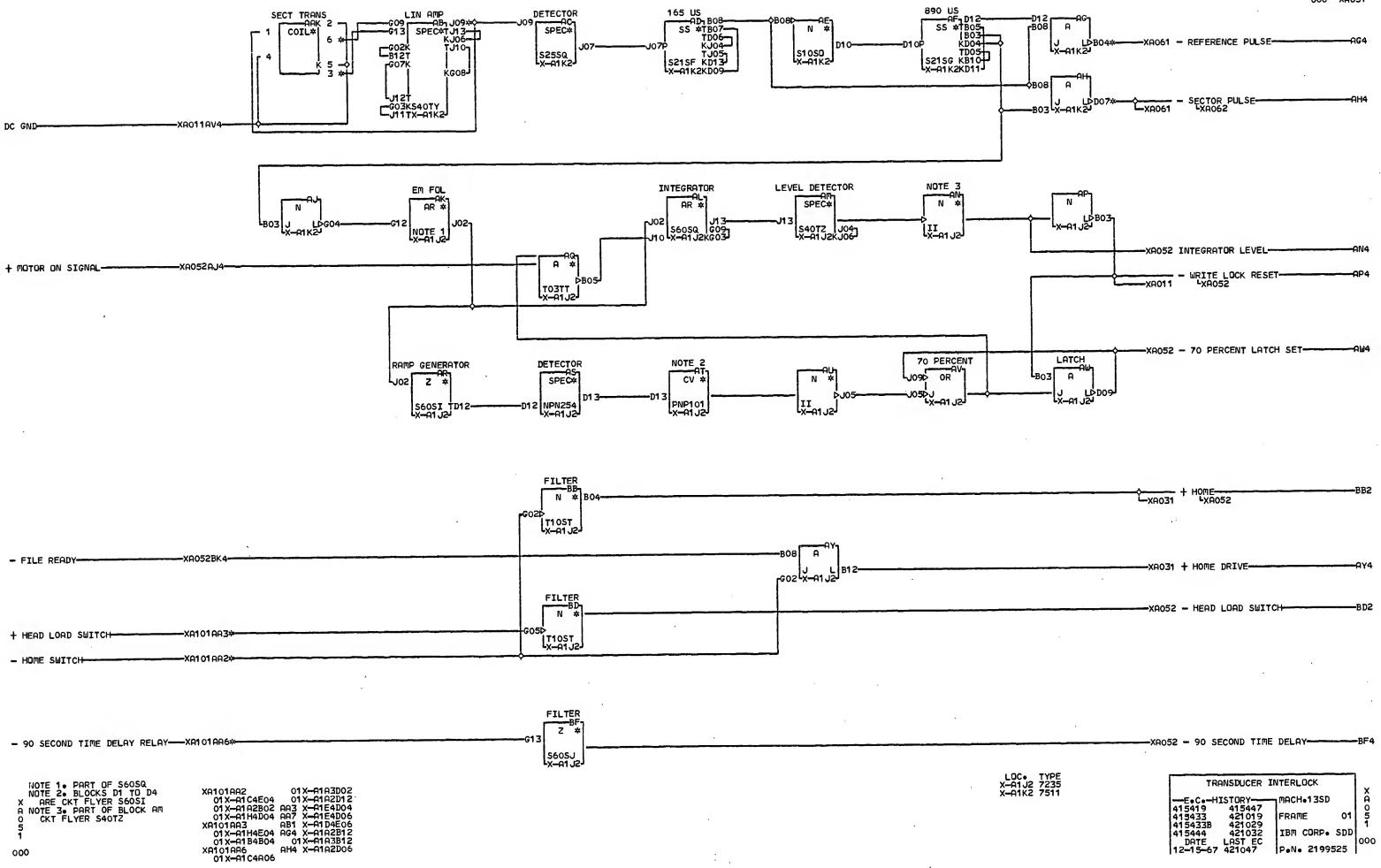
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IBM CORP. SDD

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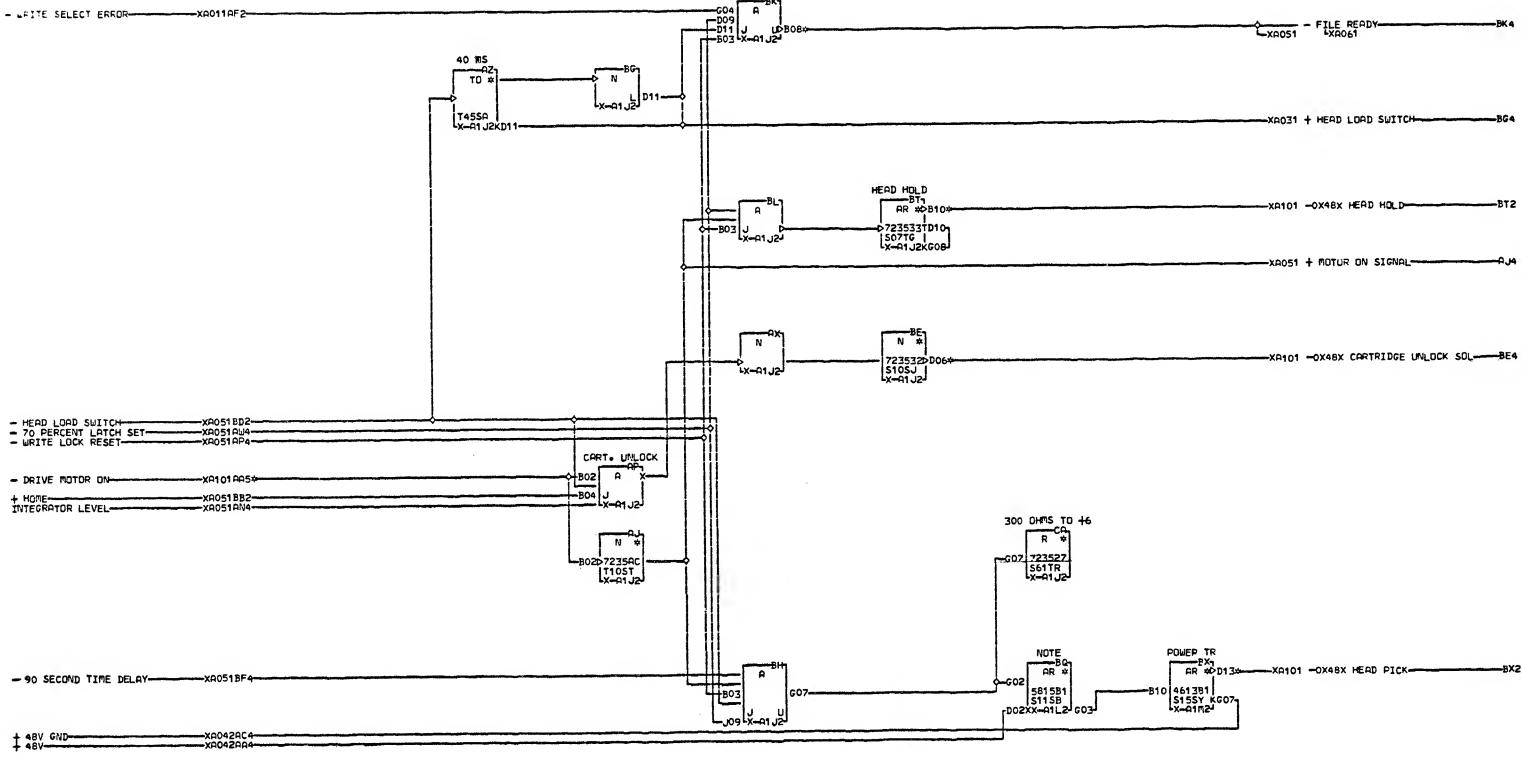
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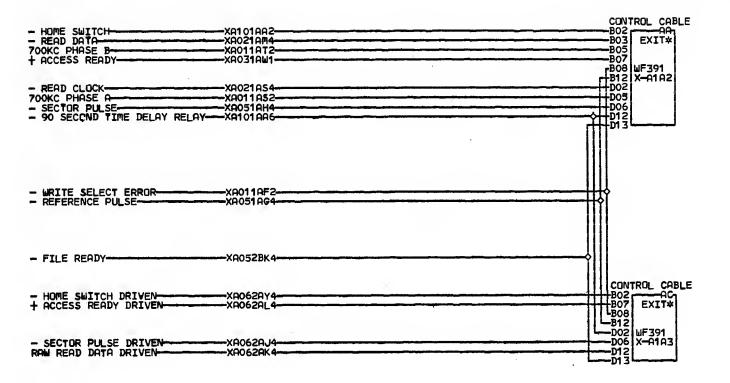
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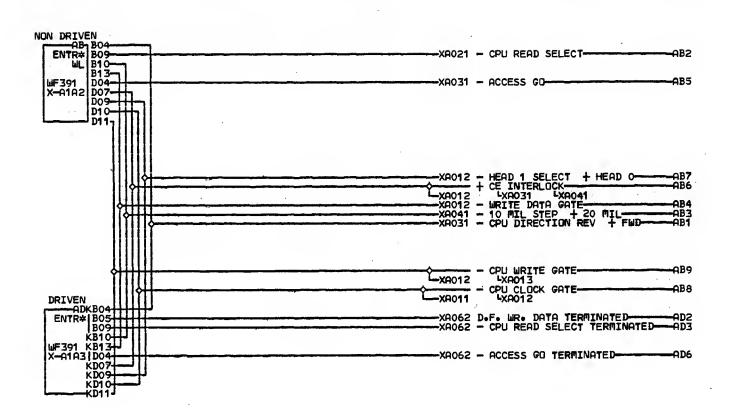


NOTE: MAY USE 5804612 DR 5801352 IN PLACE OF 5805815

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XA101AA5 01X-A1C4D04 BE4 X-A1C4B06 BK4 X-A1A2D13 01X-A1A2D13 BT2 X-A1B4E06 BX2 X-A1H4C06 01X-A1C4B04







TERMINAL STRIPS, SWITCHES, RELAYS. COILS SOLENOIDS, AND DIODES

	TERMINAL BARRIER TB							
POINTS	1	2	3	3A	4	5		
,	XA101	OPEN	XA101	XA101	XA101	OPEN		
2	XA101	XA101	XA101	XA101	OPEN	OPEN		
3	XA101	XA101	XA101	XA101	XA101	OPEN		
4	XA101	XA101	XA101	XA101	XA101	OPEN		
5	XA101	XA101	XA101	XA101	XA101	XA101		
6	XA101	OPEN	XA101	XA101	XA101	XA101		
7	-	XA101	XA101	XA101	XA101	XA101		
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9	-	-	-	-	XA101			
10	-	-	-	-	XA101	-		

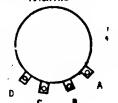
	_	
SWITCH	NO.	LOCATION
CART, IN PLACE	1	XA 101
CART. UNLOCKED	2	XA101
HOME	3	XA101
HEAD LOAD	4	XA101
CE HEAD SEL	5	XA012
CE STEP MODE	6	XA 041
CE DIRECTION	7	XA031
CE STEP CONTROL	8	XA031
MOTOR START	REF	XA101
MOTOR STOP	REF	XA 101

			CONTACTS			
RELAY	NO.	COIL		2		
START	κì	XA101	XA101	OPEN	XA 101	
TIMER	K2	XA101	101 AX	OPEN	•	
DR MOTOR	к3	XA101	XA101	-	<u> </u>	
BLOWER MTR	К4	XA101	XA 101	-	-	

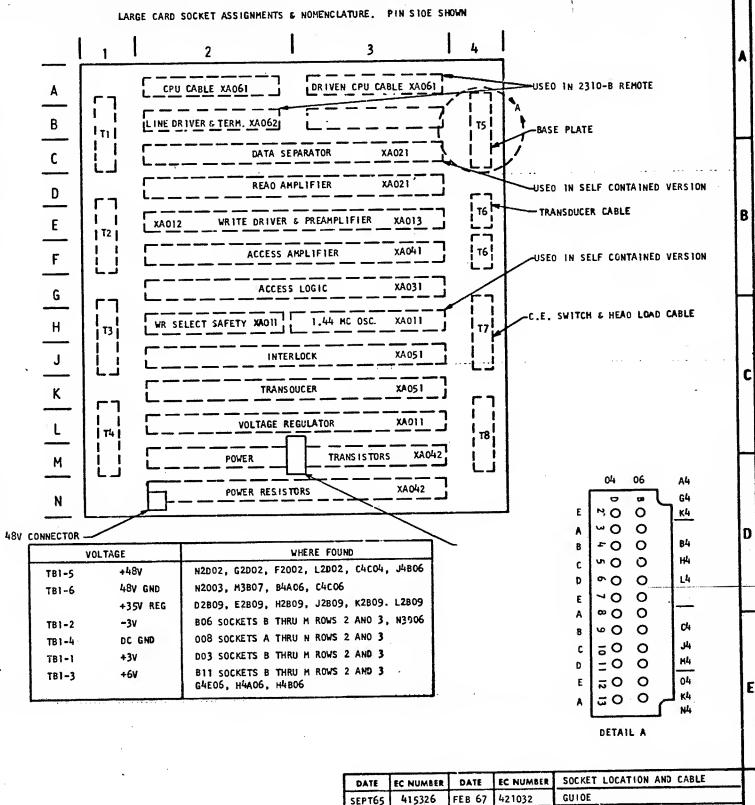
D 1 O	LOCATION	
DIOOE	D1	XA101
DIODE	D2	XA101
DIODE	CR1	XA101

COIL/SOL	LOCATION
R/W HEAD #0	XA013
R/W HEAO #1	XA013
TACHGMETER	XA041
TRANSDUCER	XA051
VOICE COIL	XA 042
HEAO LOAO	XA101
OOD DETENT	XA101
EVEN DETENT	XA101
CART, UNLOCK	XA101

TACHOMETER CONNECTORS
VIEW FROM FRONT OF
MACHINE



HEAD CABLE CONNECTIONS XAO11							
WIRE COLOR	ОТ	18					
GREY	E2 J12	E2 J13					
REO	E2 J09	E2 G07					
VIOLET	E2 G12	E2 G13					
BLA CK	02 J08	E2 J08					



2199573

TYPE 1350

XA081

DATE SEPT65 P/N

IEM

AUG 67 421043

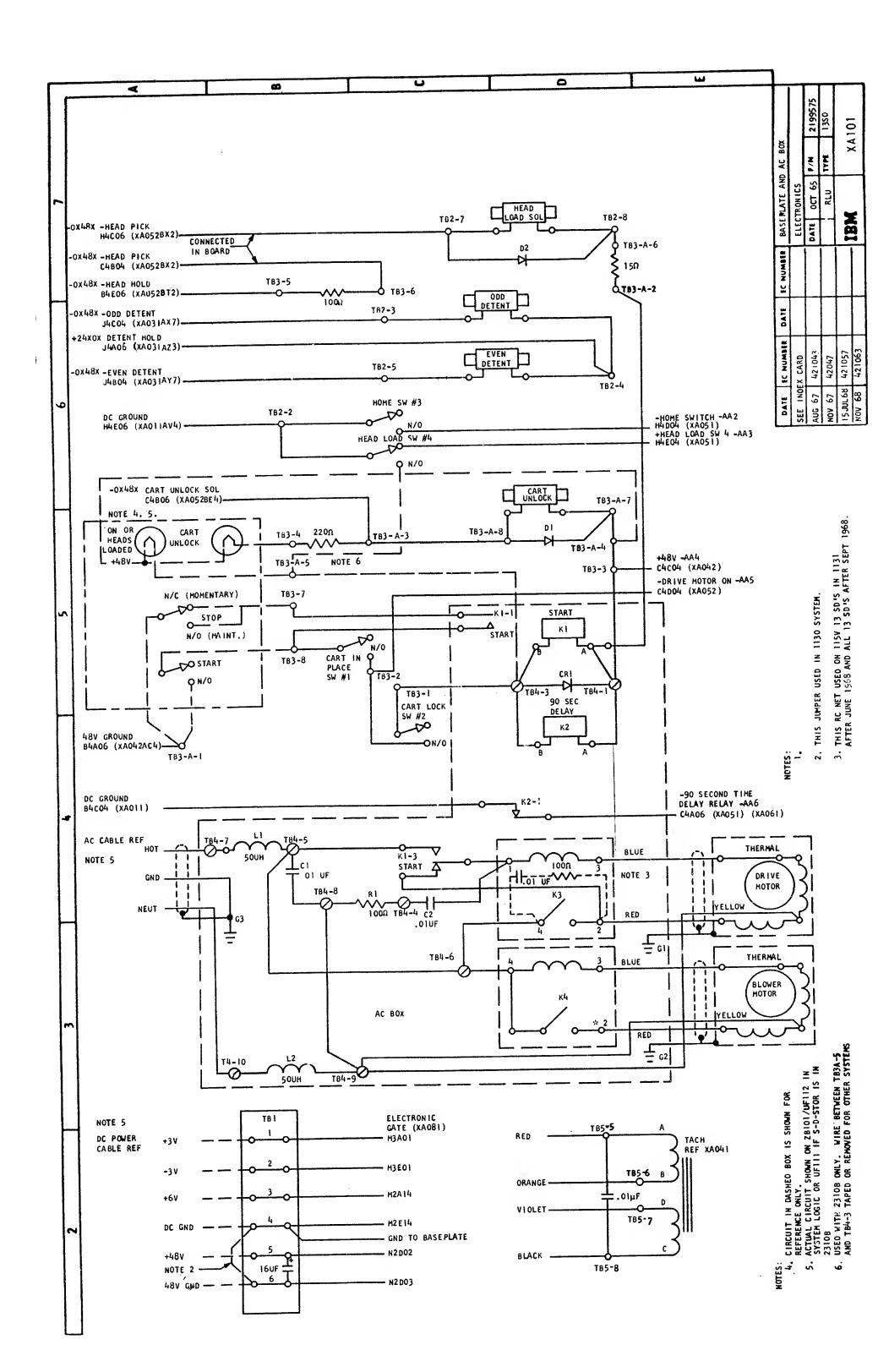
NOV 67 421047

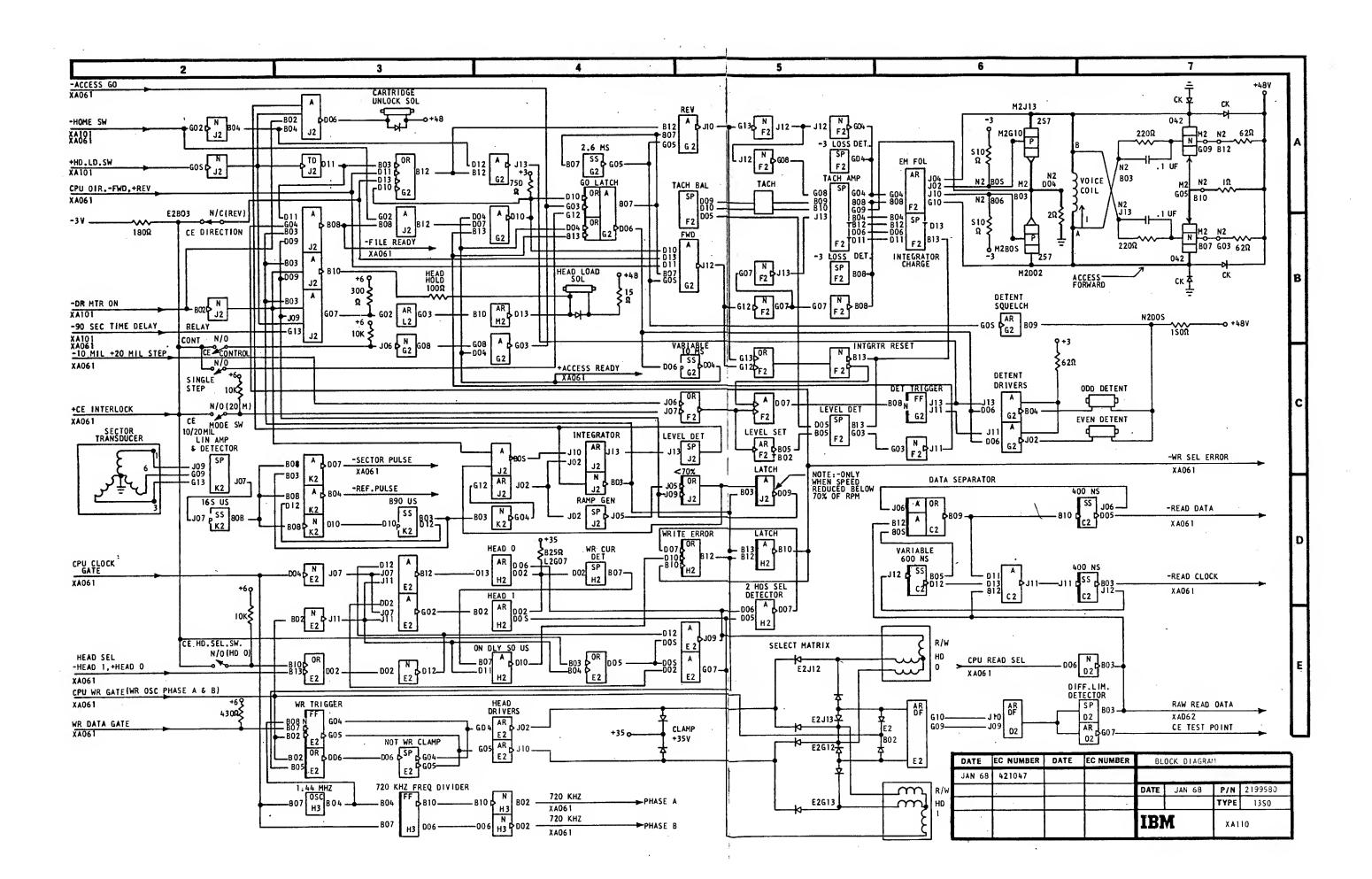
415374

415444

DEC 65 415374A MAR 66 415433

NOV 65





FIELD ENGINEERING DIAGRAM MANUAL

FOR

SINGLE DISK STORAGE (INCREMENTAL ACCESS)

MACHINE TYPE NUMBER, MODEL NUMBER (IF APPLICABLE) AND MACHINE NAME

CONSISTS OF THE FOLLOWING:

FORM NUMBER (BASE FEDM)*	Y26-4126-0			
FORM NUMBER (FES)**	Y26-0613			
-				

NOTES

- IN THE FEDM AND ITS FES'S INCLUDE A SYSTEM DATA FLOW DIAGRAM, UNIT DATA AND CONTROL DIAGRAM, I/O OPERATION DIAGRAMS, AND CONDENSED LOGIC FLOW CHARTS AS APPLICABLE TO THE UNIT(S) BEING SHIPPED.
- WHEN A FEDM IS ORDERED FROM MECHANICSBURG, ALL APPLICABLE SUPPLEMENTS WILL BE AUTOMATICALLY SUPPLIED. SUPPLEMENTS CAN BE ORDERED SEPARATELY BY APPLICABLE FORM NUMBER.

* FIELD ENGINEERING DIAGRAM MANUAL
** FIELD ENGINEERING SUPPLEMENT

INTERNATIONAL BUSINESS		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.	T
NAME FEDM ID D	YG	FEB 68	421047			X PRINT TO ENG. SPEC. NO.		12
DESIGN MOD	11	MAR 68	421047A			1		207
DETAIL :	· <u>··</u>							720
CHECK DRAI				-]		1
APPRO CHE	K					1	-	